IMC Networks
The Optical Ethernet Company

iMcV Fiber Mode Converters

Protocol-Independent, SNMP-Manageable Fiber Mode Conversion Modules

The iMcV Series of fiber mode conversion modules allow you to easily extend your network to remote locations by converting multi-mode fiber to single-mode fiber.

In today's dynamic networks, changing requirements are a fact of life. The multi-mode fiber products and cabling which were the most cost-effective and sound choice for your network yesterday may no longer give you the flexibility you require when adding remote offices today. Easily overcome the distance limitations inherent to multi-mode fiber by converting to single-mode fiber. Fiber mode converters are the solution.

Extend the reach of your network without replacing multi-mode fiber equipment:
As an economical alternative to using a switch with single-mode fiber ports, simply install an IMC Networks fiber mode converter into your multi-mode fiber network. This enables you to easily connect to single-mode cabling and achieve distances up to 100 km. Our fiber mode converters also give you the flexibility to add single-mode fiber links only where needed. The iMcV series of fiber mode conversion modules includes:

iMcV-S2MM:
- Converts multi-mode to single-mode fiber
- Supports 10 Mbps Ethernet to 155 Mbps ATM (OC-3); 622 Mbps; and from 622 Mbps, to 1.0625 Gbps FibreChannel (FC) to 1.25 Gbps Gigabit Ethernet
- Available with fault-tolerance (see below).

iMcV-M2MM:
- Converts multi-mode to multi-mode fiber
- 10 Mbps Ethernet to 155 Mbps ATM (OC-3)

iMcV-S2SM:
- Converts single-mode to single-mode fiber
- Supports 10 Mbps Ethernet to 155 Mbps ATM (OC-3); and from 622 Mbps, to 1.0625 Gbps FibreChannel (FC) to 1.25 Gbps Gigabit Ethernet

Hot-swappable fiber mode conversion modules significantly reduce operation costs by allowing other modules within the same chassis to remain up and running during product upgrades, maintenance and troubleshooting.

The Fault-Tolerant iMcV-FT-S2MM provides a dual data path during operation, the primary link segment is active while the secondary link segment is non-active to prevent an illegal Ethernet loop. If the primary link segment fails, *iMcV-FT-S2MM* automatically places the secondary link segment online and makes the primary link segment non-active. This allows connected devices to continue to transmit and receive data. Once the primary link segment is re-established, that link segment will become active once again.

Easily configure and manage converters with the GUI-based *iView²*:
As an SNMP management application, *iView²* gives network managers the ability to monitor and control IMC Networks' products. *iView²* runs standalone on Windows NT/XP/2000, as a standalone Java Application for other operating systems, as a snap-in module for HP OpenView, as a Web Server running under IIS or as a Java Web Servlet. For assistance in selecting the right version of *iView²* for your operating system, please visit our web site at: **http://www.imcnetworks.com/go/iview2**

Cost-effective and flexible
- Use multi-mode fiber equipment and implement single-mode fiber only where longer distances are needed

Protocol-Independent
- Modules support various transmission speeds— from 10 Mbps Ethernet up to Gigabit Ethernet

Meets a multitude of installation requirements
- Available with ST, SC or Small Form Factor fiber connectors
- Single-strand fiber versions available
- CWDM fiber versions available
- Fault-tolerant versions available
- Supports very long fiber distances

Easy to configure and manage with GUI-based iView²
- Up and running in less than 5 minutes
- Receive vital traffic and health information, as well as traps if problems should occur

Maximizes network uptime
- Modules are hot-swappable; no need to power-down chassis when upgrading or trouble-shooting a single module

Made in USA
6-YEAR Comprehensive Warranty
ISO 9001:2000 REGISTERED

Technical Specifications

- Includes protocol-independent operation
- Converts between dissimilar fiber modes and wavelengths: multi-mode to single-mode; multi-mode to single-mode; and single-mode to single-mode
- Ethernet, Fast Ethernet and ATM/OC-3
- OC-12, Gigabit Ethernet and FibreChannel
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Available for single-strand fiber
- Available with fault-tolerance
- **Connectors:** ST, SC or MT-RJ
- Installs in any iMediaChassis, iMediaCenter or MediaChassis
- Supports GUI-Based *iView²*
- Includes diagnostic LEDs
- Includes hot-swappable architecture

Regulatory Approvals:
· FCC Class A · UL/cUL, CSA, CE

Shipping Weight: .30 lbs (.11 kg)

Operating Temperature: 32° to 122°F (0° to +50°C); 5% to 90% (non-condensing), 0 – 10,000 ft. altitude

Storage Temperature: -13° to +158°F (-25° to +70°C); 5 to 90% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the number in the [**XX**] denotes an approximate fiber distance based on industry-standard fiber specifications and worst-case (connector loss, aged fiber, splices, etc.) installations. You can typically achieve substantially longer distances. Actual distances may vary for each installation. For complete power budgets and information on calculating specific distances, please visit web site our at **www.imcnetworks.com/go/fcs** or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

iMcV-S2MM/155 — Single-mode to multi-mode

50-14520	iMcV-S2MM/155, SM1310/PLUS-ST + MM1300-ST [40 Km]
50-14530	iMcV-S2MM/155, SM1310/PLUS-SC + MM1300-SC [40 Km]
50-14530-MT	iMcV-S2MM/155, SM1310/PLUS-SC + MM1300-MT [40 Km]
50-14540	iMcV-S2MM/155, SM1310/LONG-ST + MM1300-ST [80 Km]
50-14550	iMcV-S2MM/155, SM1310/LONG-SC + MM1300-SC [80 Km]
50-14555	iMcV-S2MM/155, SM1550/LONG-SC + MM1300-SC [100 Km]
50-14560	iMcV-S2MM/155, SM1310/PLUS-ST + MM850-ST [40 Km]
50-14570	iMcV-S2MM/155, SM1310/PLUS-SC + MM850-SC [40 Km]
50-14580	iMcV-S2MM/155, SM1310/LONG-ST + MM850-ST [80 Km]
50-14590	iMcV-S2MM/155, SM1310/LONG-SC + MM850-SC [80 Km]
50-14595	iMcV-S2MM/155, SM1550/LONG-SC + MM850-SC [100 Km]

iMcV-S2MM/155 — Single-strand fiber[1] to multi-mode

50-14532	iMcV-S2MM/155, SSFX-SM1310-SC + MM1300-SC [20 Km]
50-14533	iMcV-S2MM/155, SSFX-SM1550-SC + MM1300-SC [20 Km]
50-14535	iMcV-S2MM/155, SSFX-SM1310/PLUS-SC + MM1300-SC [40 Km]
50-14536	iMcV-S2MM/155, SSFX-SM1550/PLUS-SC + MM1300-SC [40 Km]

iMcV-S2MM/622 — Single-mode to multi-mode

59-14802	iMcV-S2MM/622, MM1300-SC + SM1310/PLUS-SC [40 Km]
59-14805	iMcV-S2MM/622, MM1300-SC + SM1550/LONG-SC [100 Km]

iMcV-S2MM/1250 — Single-mode to multi-mode

59-14799	iMcV-S2MM/1250, LX-SM1310-SC + SX-MM850-SC [10 Km]
59-14800	iMcV-S2MM/1250, LX-SM1310/PLUS-SC + SX-MM850-SC [40 Km]
59-14801	iMcV-S2MM/1250, LX-SM1550/LONG-SC + SX-MM850-SC [100 Km]

iMcV-M2MM/155 — Multi-mode to multi-mode

50-14510	iMcV-M2MM/155, MM1300-ST + MM850-ST [2 Km]
50-14511	iMcV-M2MM/155, MM1300-SC + MM850-SC [2 Km]

iMcV-S2MM/1250 — Single-strand fiber[1] to multi-mode

59-14808	iMcV-S2MM/1250, SSLX-SM1310/PLUS-SC+SX-MM850-SC [40 Km]
59-14809	iMcV-S2MM/1250, SSLX-SM1550/PLUS-SC+SX-MM850-SC [40 Km]

iMcV-FT-S2MM/1250 — Single-mode to multi-mode

59-14811	iMcV-FT-S2MM/1250, 2*LX-SM1310/PLUS-LC + SX-MM850-SC [40 Km]
59-14812	iMcV-FT-S2MM/1250, 2*LX-SM1550/LONG-LC + SX-MM850-SC [100 Km]

iMcV-S2SM/155 — Single-mode to single-mode

50-14513	iMcV-S2SM/155, SM1550/LONG-SC + SM1310/PLUS-SC [100 Km]
50-14514-LC	iMcV-S2SM/155, SM1550/LONG-SC + SM1310/LONG-LC [100 Km]

iMcV-S2SM/155 — Single-strand fiber[1] to single-mode

50-14515	iMcV-S2SM/155, SSFX-SM1310-SC + SM1310/PLUS-SC [20 Km]
50-14516	iMcV-S2SM/155, SSFX-SM1550-SC + SM1310/PLUS-SC [20 Km]
50-14517	iMcV-S2SM/155, SSFX-SM1310/PLUS-SC + SM1310/LONG-SC [40 Km]
50-14518	iMcV-S2SM/155, SSFX-SM1550/PLUS-SC + SM1310/LONG-SC [40 Km]

iMcV-S2SM/1250 — Single-mode to single-mode

59-14803	iMcV-S2SM/1250, LX-SM1310/PLUS-SC + LX-SM1310/PLUS-SC [40 Km]
59-14804	iMcV-S2SM/1250, LX-SM1310/PLUS-SC + LX-SM1550/LONG-SC [100 Km]

iMcV-S2SM/1250 — Single-strand fiber[1] to single-mode

50-14820	iMcV-S2SM/1250, SSLX-SM1310-SC + SM1310/PLUS-SC
50-14821	iMcV-S2SM/1250, SSLX-SM1550-SC + SM1310/PLUS-SC
50-14822	iMcV-S2SM/1250, SSLX-SM1310/PLUS-SC + SM1310/PLUS-SC
50-14823	iMcV-S2SM/1250, SSLX-SM1550/PLUS-SC + SM1310/PLUS-SC

[1] *These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product. For more information go to:* www.imcnetworks.com/products/SSFX.cfm. *Contact IMC Networks for CWDM part numbers.*

Related Products — iMcV Series Modules

The *iMcV Series* includes 10 Mbps (***iMcV-PIM***), 100 Mbps (***iMcV-LIM)***, autosensing 10/100 Mbps (***iMcV-LIM 10/100)***, 155 Mbps ATM (***iMcV-ATM***) and Gigabit Ethernet (***iMcV-Gigabit)*** copper-to-fiber media conversion modules as well as 10/100 and 10/100/1000 switching media converters (***MediaLinX*** series). T1/E1/J1 media converters (***iMcV-T1/E1/J1***), DS3/E3 media converters (***iMcV-DS3/E3***) and VDSL to Ethernet media converters **(iMcV-VDSL-LANextender)** are also available. In addition, IMC Networks has the most extensive line of protocol-independent (***iMcV-S2MMs, iMcV-S2SMs*** and ***iMcV-M2MMs***) fiber mode conversion modules. The *iMcV* series also includes: ***iMcV-FiberLinX, iMcV-WDM*** and ***iMcV-FiberWay*** modules. Single-strand fiber versions are available for many of our media converters.

For more information on the various products in the *iMcV Series,* please refer to the IMC Networks Web site at: **http://www.imcnetworks.com/Products/ProdDir.cfm**

IMC Networks
Headquarters
19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com
www.imcnetworks.com

IMC Networks
Europe
Herseltsesteenweg 268
B-3200 Aarschot Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks
Eastern US/Latin America
18840 US Hwy. 19 North Suite 400
Clearwater, FL 33764
TEL: 727-524-8152/524-8071 (Latin)
FAX: 727-524-8432
latinsales@imcnetworks.com

IMC Networks
Fiber Consulting Services
For information call:
TEL: 949-465-3000
1-800-624-1070 (US/CAN)
+32-16-550880 (Europe)
fcs@imcnetworks.com

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